



quick facts on...

# Barron River (SR29) Canal Corridor Aerial Mapping and Survey Project

August 2006

*The South Florida Water Management District is a regional, governmental agency that oversees the water resources in the southern half of the state. It is the oldest and largest of the state's five water management districts.*

*Our mission is to manage and protect water resources of the region by balancing and improving water quality, flood control, natural systems and water supply.*

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## BACKGROUND

The Barron River Canal was originally constructed in the 1920's as a borrow canal to provide fill for construction of the railroad grade between Immokalee and Everglades City in Collier County, Florida.

Construction of the railroad grade, including modifications to accommodate the commercial logging industry of the 1940's, significantly altered the historic surfacewater sheetflow by channeling water into the Barron River (SR29) Canal.

While the population of the area grew, few improvements were made to the original railroad grade, other than it's transformation into the State Road 29 (SR29) highway.

## ISSUE

While the project area has changed little over the past 60 years, current land uses within and adjacent to the project are converting from agriculture to residential and commercial developments and some industrial uses.

Additionally, the existing water control structures are 60 years old and in need of immediate repair.

Detailed topographic data for the development of water management plans for the area is not available. The BCB 5-Year Plan has identified procuring topographic data by aerial photogrammetric survey

## PROJECT AREA

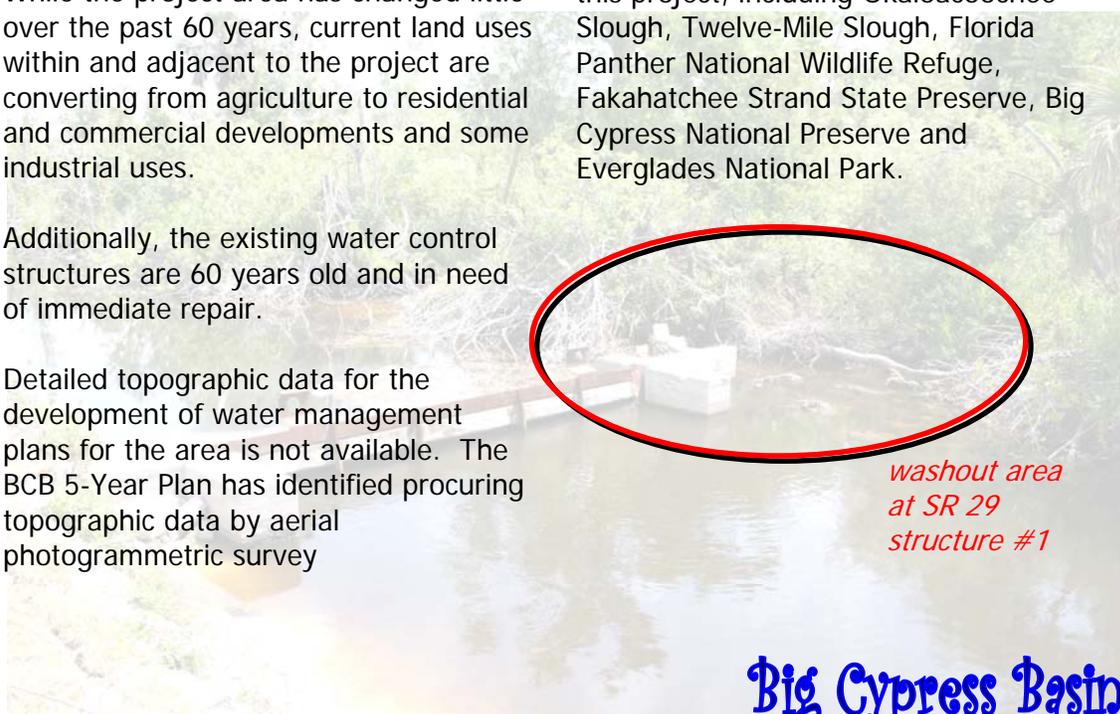
Approximately 296-square mile watershed feeds the Barron River Canal Corridor, extending from southwestern Hendry County to Chokoloskee Bay and Everglades National Park in Collier County.

## OBJECTIVES

The project objectives include:

- developing topographic contour maps (<1 ft. contours)
- assimilating data (location, hydrologic, etc) for upgrading drainage infrastructure
- using data from this project to model, assess, plan, design and implement future restoration and enhancement projects
- incorporating data from this project into local and regional studies

Several natural areas will benefit from this project, including Okaloacoochee Slough, Twelve-Mile Slough, Florida Panther National Wildlife Refuge, Fakahatchee Strand State Preserve, Big Cypress National Preserve and Everglades National Park.



washout area at SR 29 structure #1

**PROJECT PHASES:**

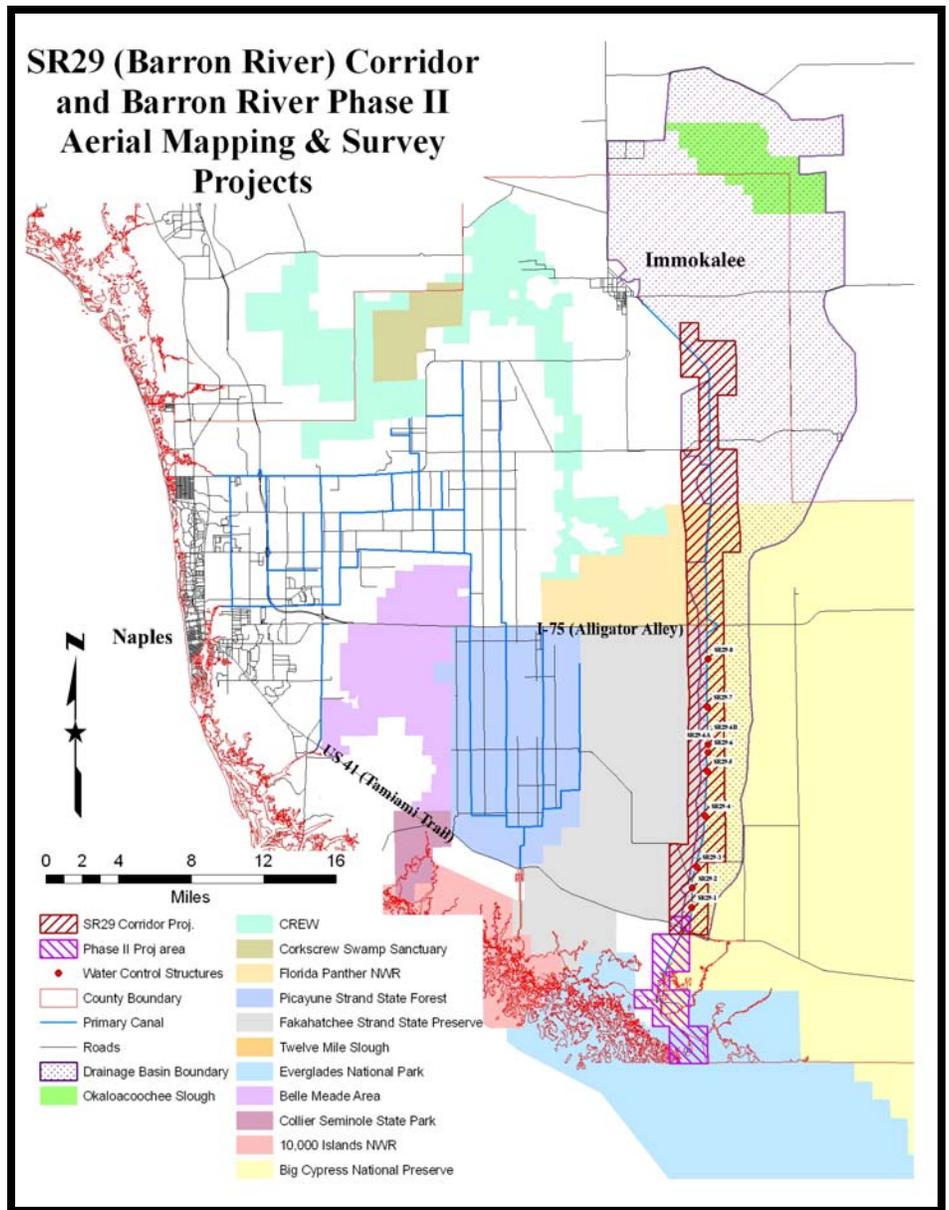
The original project area extended from Immokalee to Tamiami Trail. However, the project was expanded at the suggestion of Governing Board member, Mr. Collins and has now been divided into two phases:

**PHASE I** - 70 square miles - 4 miles southeast of Immokalee, south to Tamiami Trail (US41)

**PHASE II** - 15 square miles - Tamiami Trail, south to Chokoloskee Island

**PROJECT COST:**

PHASE I	-	\$1,282,542
PHASE II	-	\$178,601
<b>TOTAL</b>	<b>-</b>	<b>\$1,461,143</b>



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